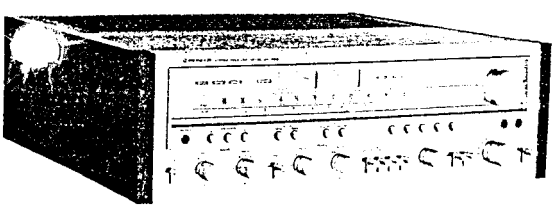
AM/FM STEREO RECEIVER

SX-1050

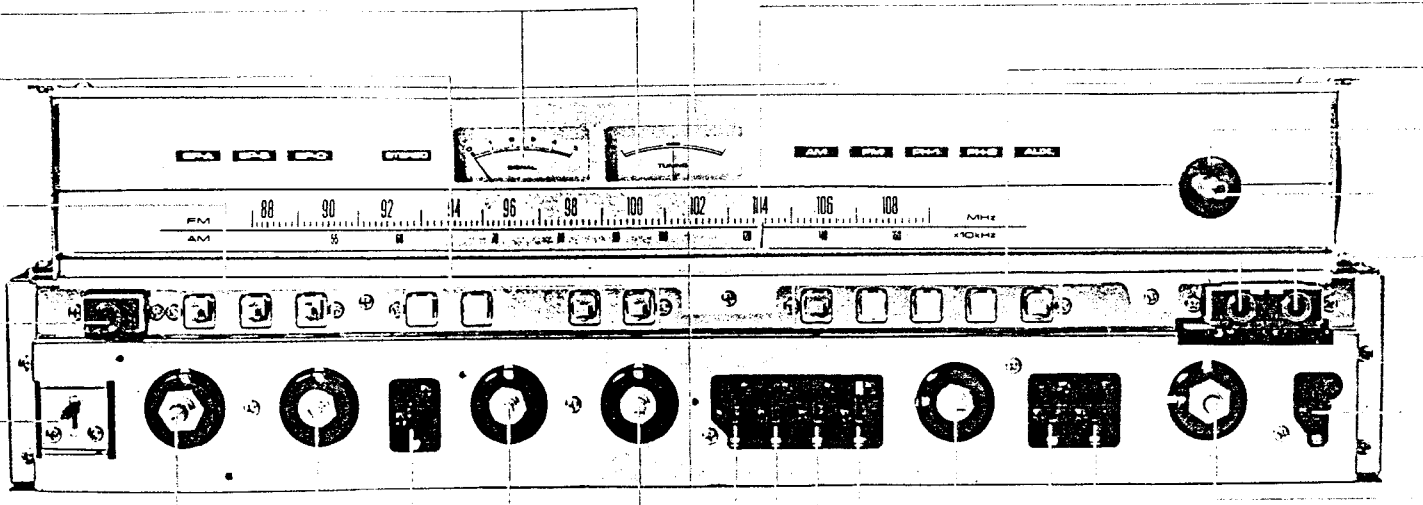
KCU, S

<ART-154-0>

Service Manual



8.2 FRONT VIEW 2 (with Panel Removed)



Double meter (SIGNAL/TUNING) AAW-040

Push switch (FILTER, FM MUTING, MULTIPATH) ASG-098

Push switch (SPEAKERS) ASG-094

Phone jack (PHONES) AKN-010

Lever switch (POWER) ASK-080

Variable resistor (BASS 50Hz) 102kΩ ACV-165

Variable resistor (BASS 100Hz) 102.6kΩ ACV-166

Lever switch (TONE) ASK-090

Variable resistor (TREBLE 10kHz) 99kΩ ACV-167

Variable resistor (TREBLE 20kHz) 102kΩ ACV-168

Lever switch (TAPE DUPLICATE) ASK-092

Lever switch (TAPE MONITOR 1) ASK-090

Dial panel AAG-105

Dial pointer AAF-051

Push switch (FUNCTION) ASG-095

Shaft cover AAT-025

Tuning shaft assembly AXA-111

Phone jack (MIC) AKN-013

Lever switch (MUTING) ASK-090

Variable resistor (VOLUME) 50kΩ ACV-169

Lever switch (LOUDNESS) ASK-090

Lever switch (MODE) ASK-090

Variable resistor (BALANCE) 100kΩ-HB ACV-163

Lever switch (ADAPTOR) ASK-090

Lever switch (TAPE MONITOR 2) ASK-090

8. PARTS LOCATIONS

8.1 FRONT VIEW 1

Knob (FM MUTING OFF)
AAD-114

Knob (FM MULTIPATH)
AAD-114

Knob (FILTER 8kHz)
AAD-114

Knob (FILTER 30Hz)
AAD-114

Knob (SPEAKERS C)
AAD-114

Knob (SPEAKERS B)
AAD-114

Knob (SPEAKERS A)
AAD-114

Phone jack (PHONES)
AKN-010

Knob (POWER)
AAD-113

Knob (BASS 50Hz)
AAB-100

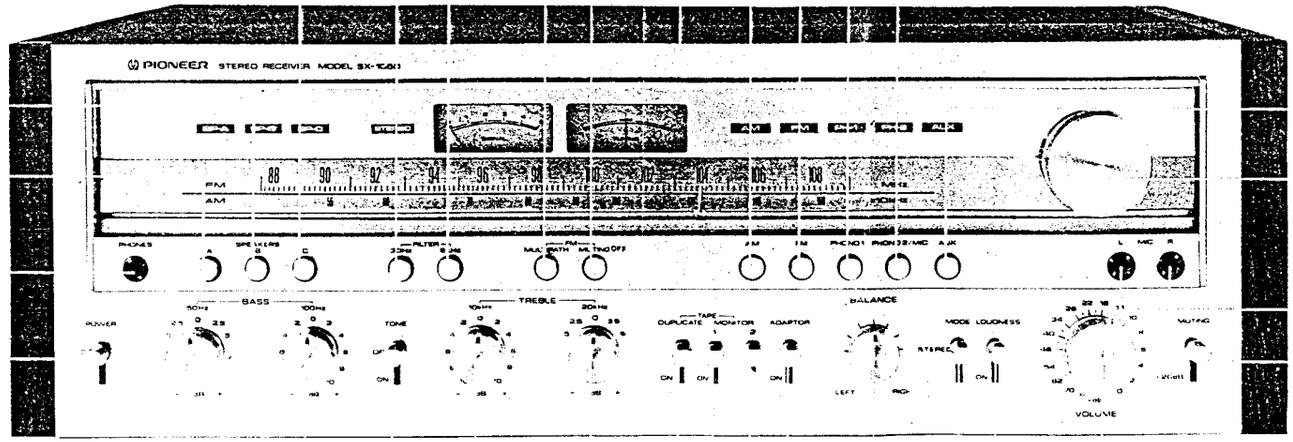
Knob (BASS 100Hz)
AAB-100

Knob (TONE)
AAD-113

Knob (TREBLE 10kHz)
AAB-100

Knob (TREBLE 20kHz)
AAB-100

Knob (TAPE DUPLICATE)
AAD-113



Knob (TAPE MONITOR 1)
AAD-113

Front panel assembly
ANB-388

Knob (AM)
AAD-114

Knob (FM)
AAD-114

Knob (PHONO 1)
AAD-114

Knob (PHONO 2/MIC)
AAD-114

Knob (AUX)
AAD-114

Knob (TUNING)
AAA-034

Phone jack (MIC)
AKN-013

Knob (MUTING)
AAD-113

Knob (VOLUME)
AAB-104

Knob (LOUDNESS)
AAD-113

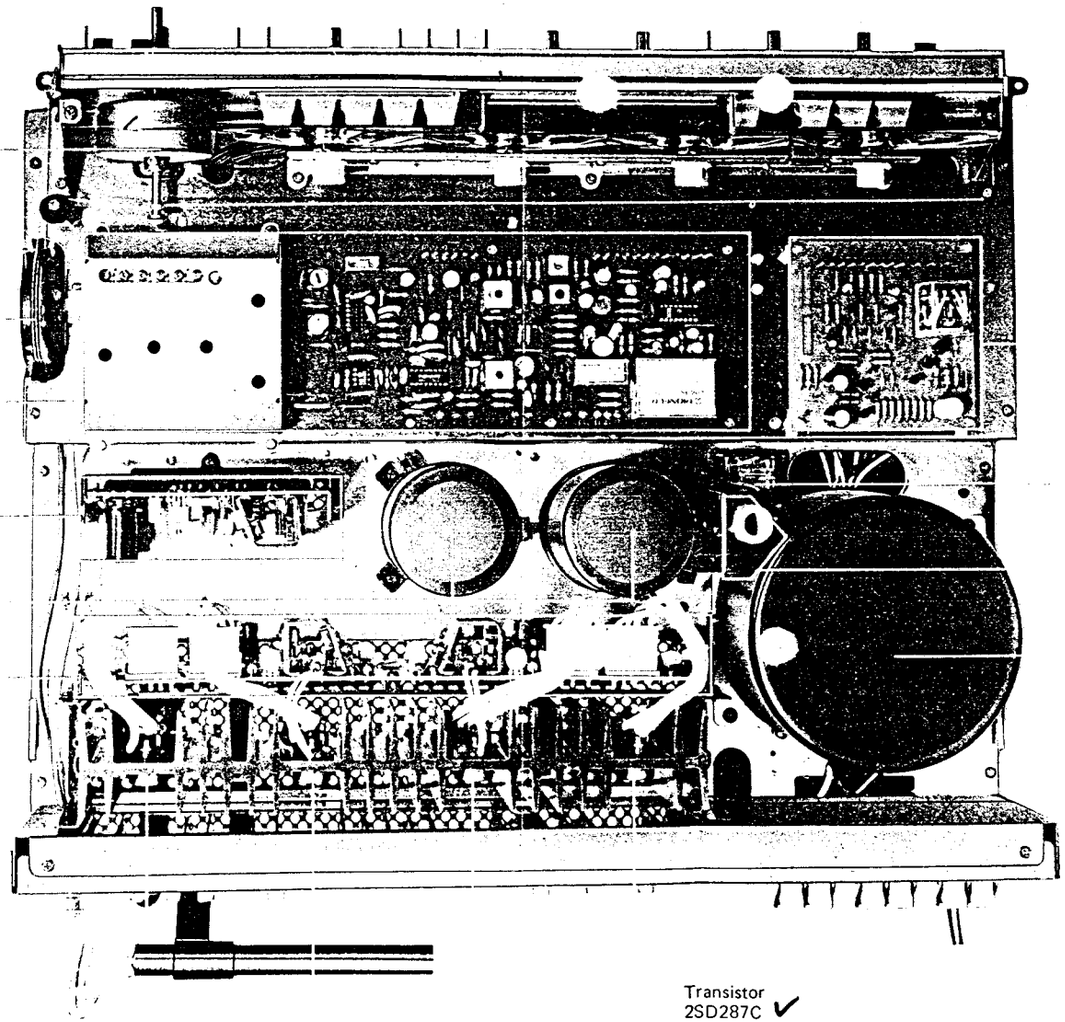
Knob (MODE)
AAD-113

Knob (BALANCE)
AAB-100

Knob (ADAPTOR)
AAD-113

Knob (TAPE MONITOR 2)
AAD-113

8.3 TOP VIEW



Tuning shaft assembly
AXA-111

Tuning drum assembly
AXA-113

Tuner assembly
AWE-067

Power supply assembly-A
AWR-103

Electrolytic capacitor
(22,000μF, 80V)
ACH-056

Power amplifier assembly
AWH-047

Transistor
2SD287C

Protection Assembly
AWM-090

Relay
ASR-015

Surge current suppressor
assembly
AWX-098

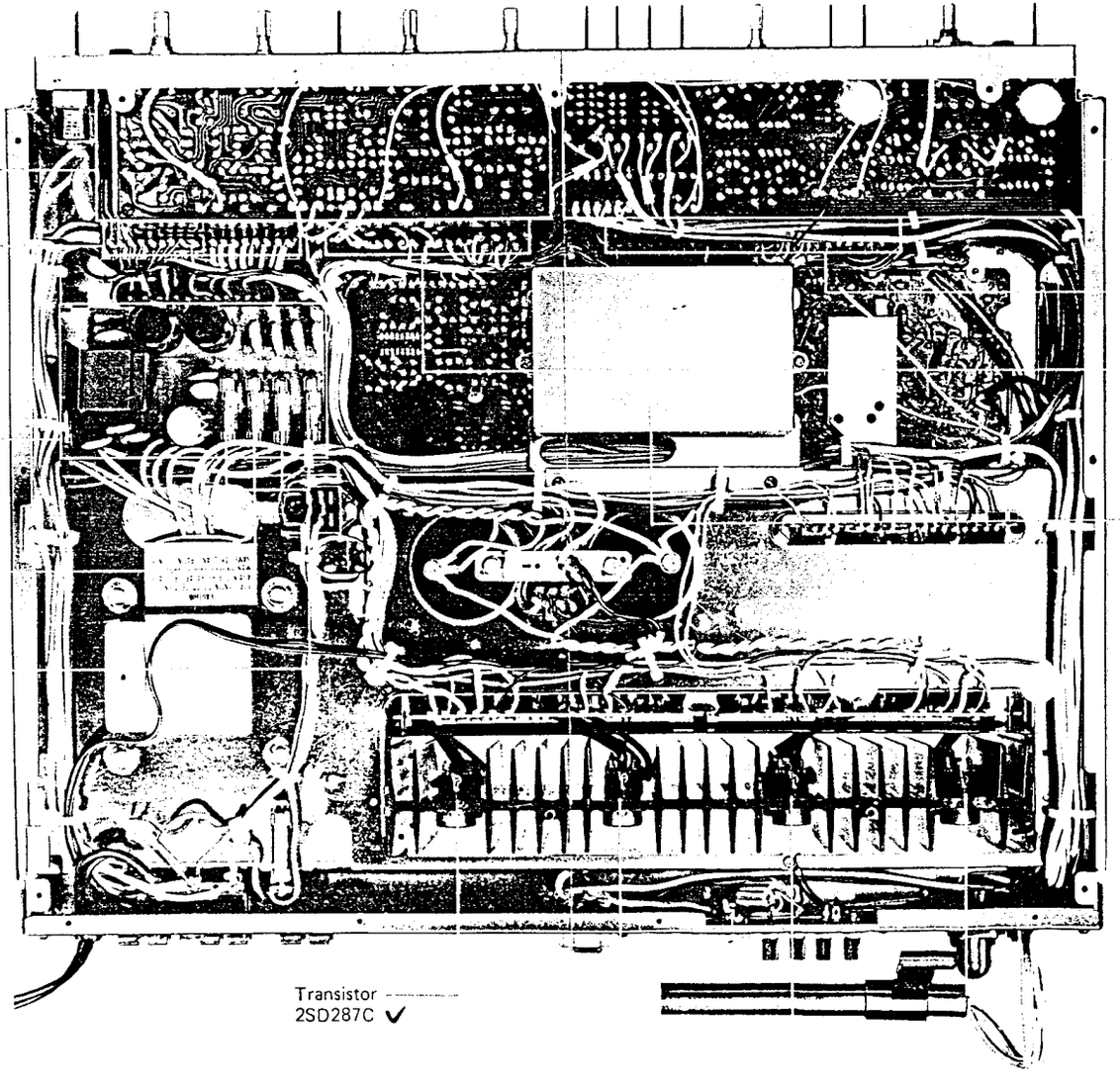
Power transformer
ATT-266

Transistor
2SD287C

Transistor
2SB539C

Transistor
2SB539C

8.4 BOTTOM VIEW



Transistor
2SB539C

8.5 REAR VIEW

REC-PB connector socket (5P) AKP-007 ✓

Terminal (TAPE 2) AKB-030 ✓

Terminal (TAPE 1) AKB-030 ✓

Terminal (INPUT) AKB-033 ✓

Terminal (GND) AKE-012 ✓

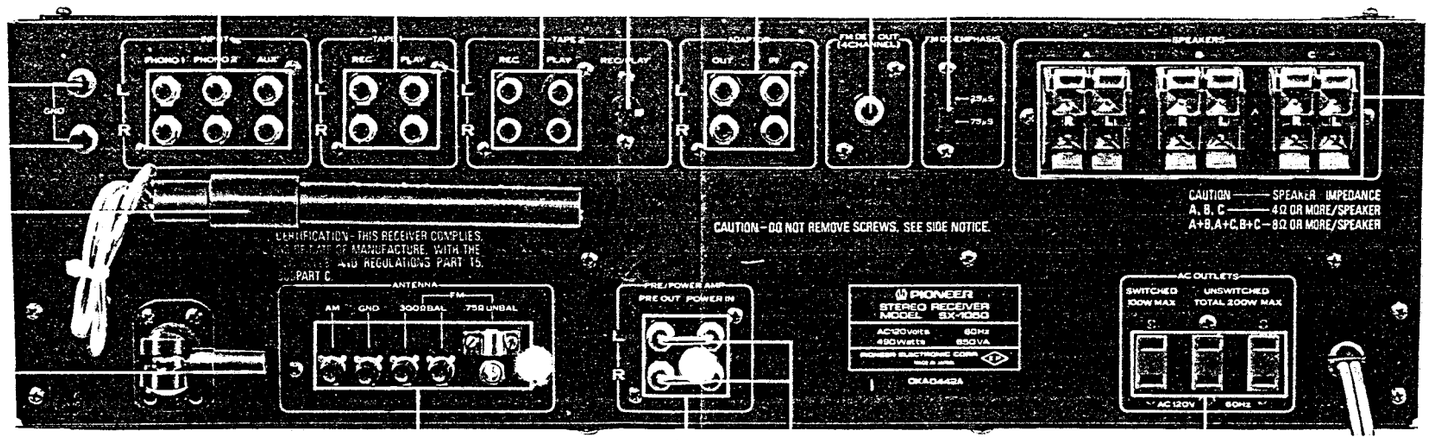
Terminal (GND) AKE-012 ✓

Ferrite bar-antenna ATB-050 ?

Bar-antenna holder W72-092 ✓

Terminal (ANTENNA) AKA-004 ✓

Terminal (PRE/POWER AMP) AKB-030 ✓



Terminal (ADAPTOR) AKB-030 ✓

Terminal (FM DET.OUT) AKB-019 ✓

Slide switch (DE-EMPHASIS) ASH-015 ✓

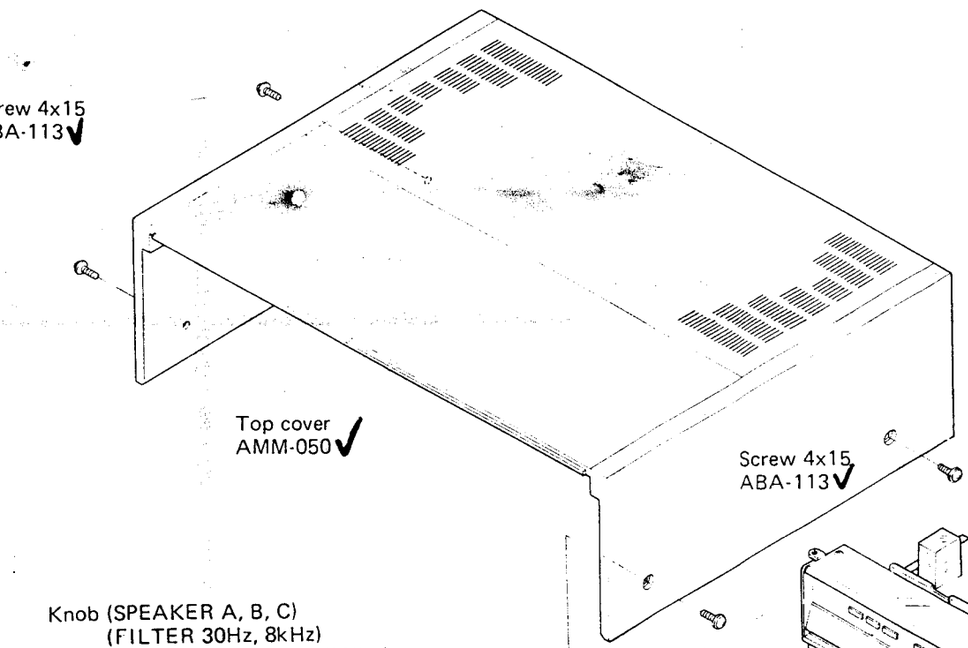
Terminal (SPEAKERS) AKE-014 ✓

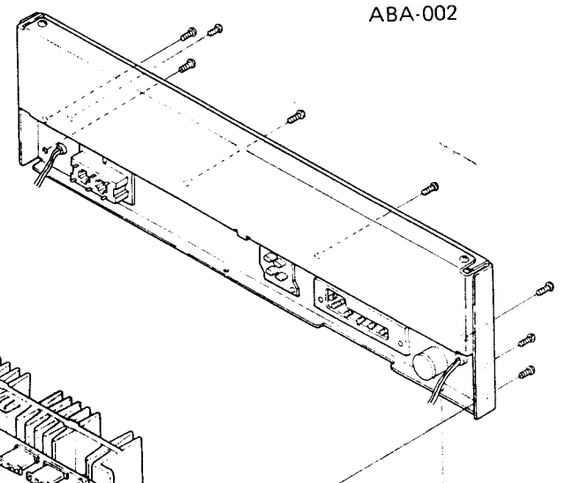
AC power cord ADG-013

AC socket (AC OUTLETS) AKP-005 ✓

Jumper plug AKM-004 ✓

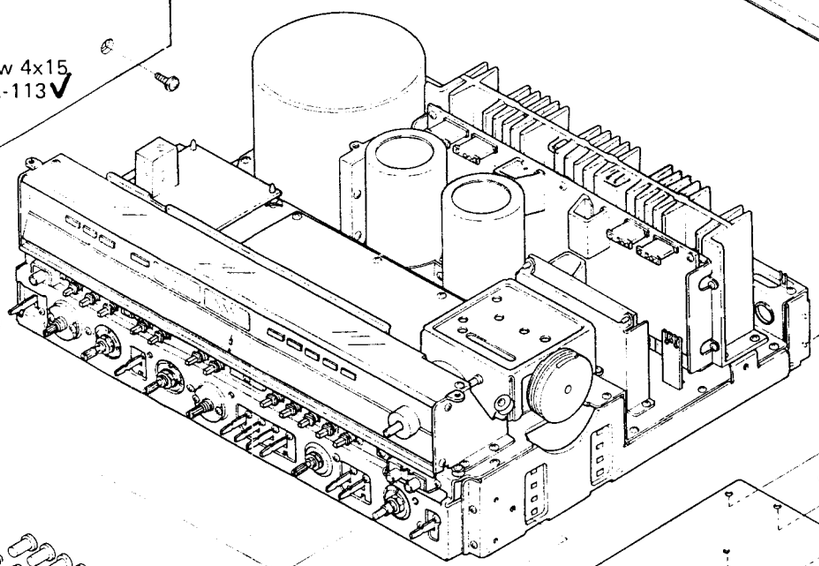
NOTE:
Parts indicated in green type cannot be supplied.





PART 3
See page 50.

PART 1, 2
See pages 47–49.



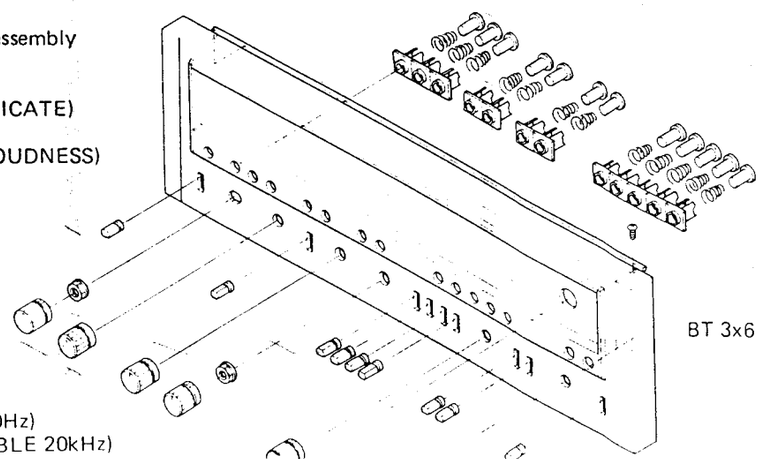
Knob (SPEAKER A, B, C)
(FILTER 30Hz, 8kHz)
(FM MUTING, MULTIPATH)
(AM, FM, PHONO 1, PHONO 2/MIC, AUX)
AAD-114

BT 3x6

Front panel assembly
ANB-388 ✓

Knob (POWER, TONE, DUPLICATE)
(TAPE MONITOR 1, 2)
(ADAPTOR, MODE, LOUDNESS)
(MUTING)
AAD-113

Washer faced nut 9ϕ
ABN-024



Knob (BASS 50Hz, BASS 100Hz)
(TREBLE 10kHz, TREBLE 20kHz)
AAB-100

Knob (BALANCE)
AAB-100

Knob (TUNING)
AAA-034

Knob (VOLUME)
AAB-104

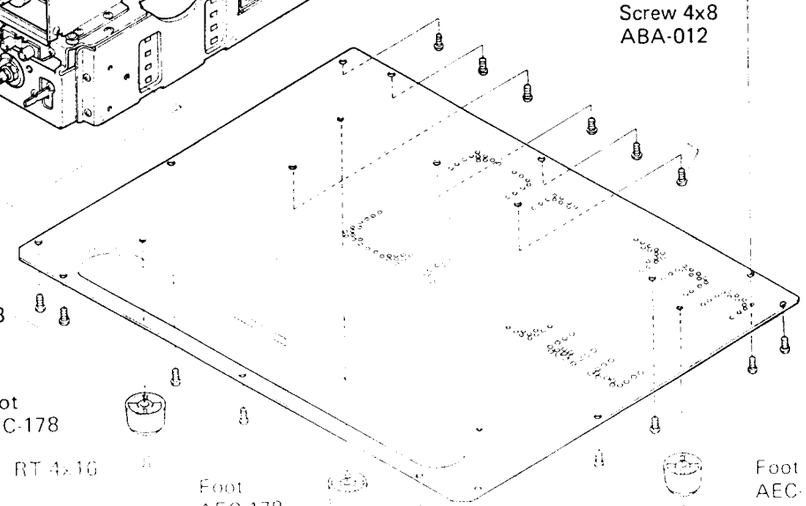
Washer faced nut 9ϕ
ABN-024

BT 3x6

Coil spring
ABH-022

Spacer
AEC-258

Screw 4x8
ABA-012



Screw 4x8
ABA-012

Foot
AEC-178
RT 4x16

Foot
AEC-178
RT 4x16

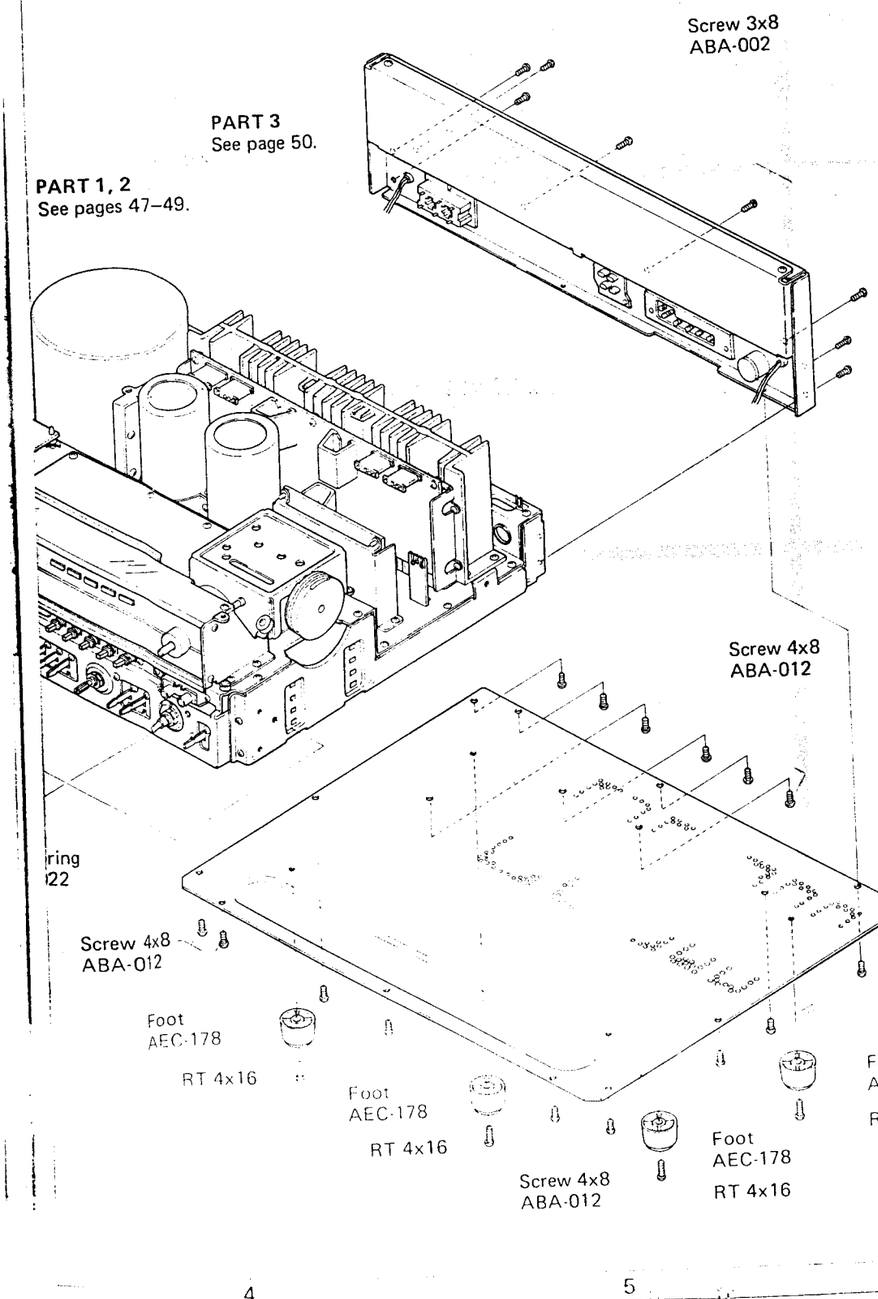
Screw 4x8
ABA-012

Foot
AEC-178
RT 4x16

Foot
AEC-178
RT 4x16

Screw 4x8
ABA-012

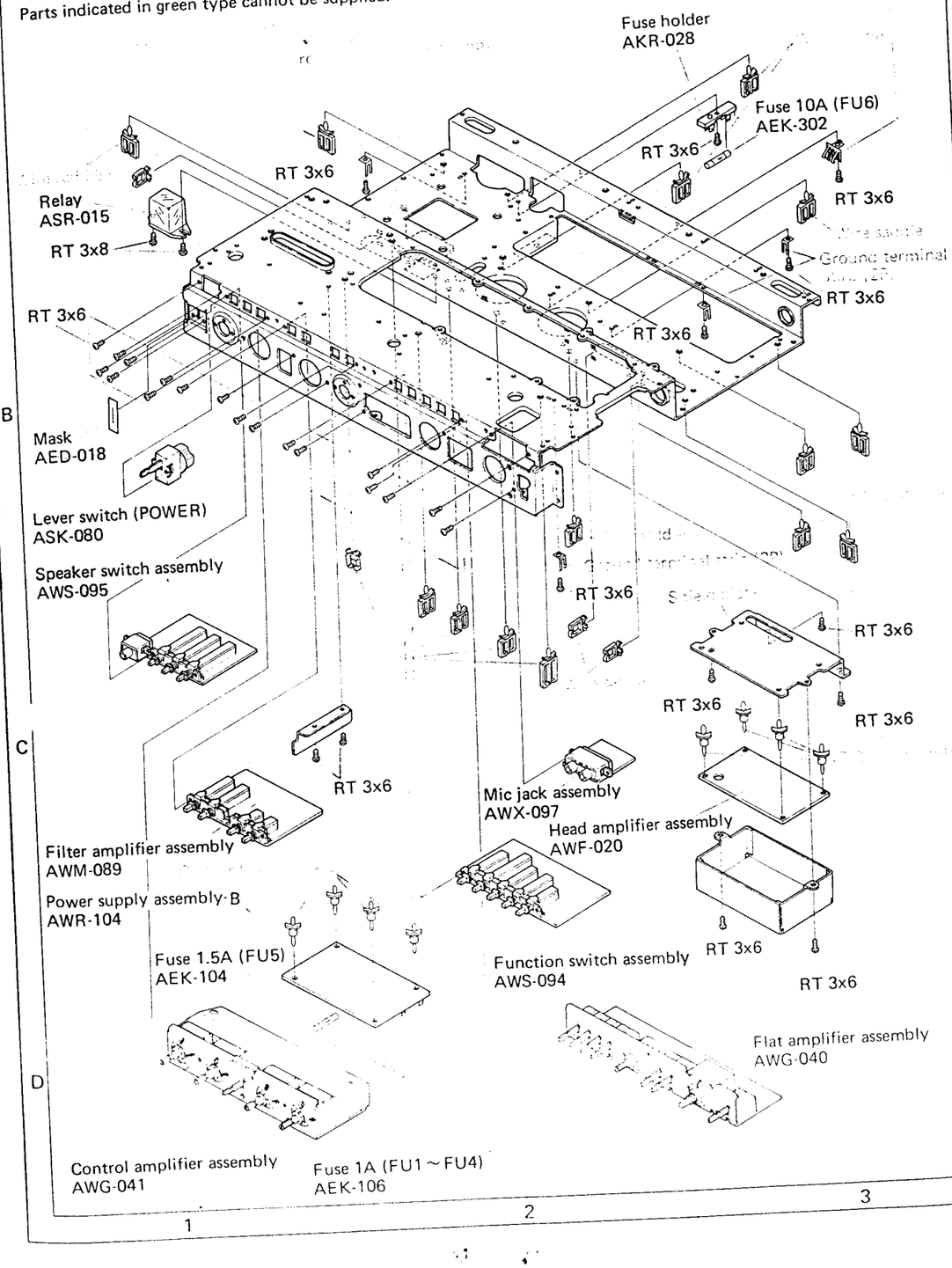
NOTE:
Parts indicated in green type cannot be supplied.



SX-1050

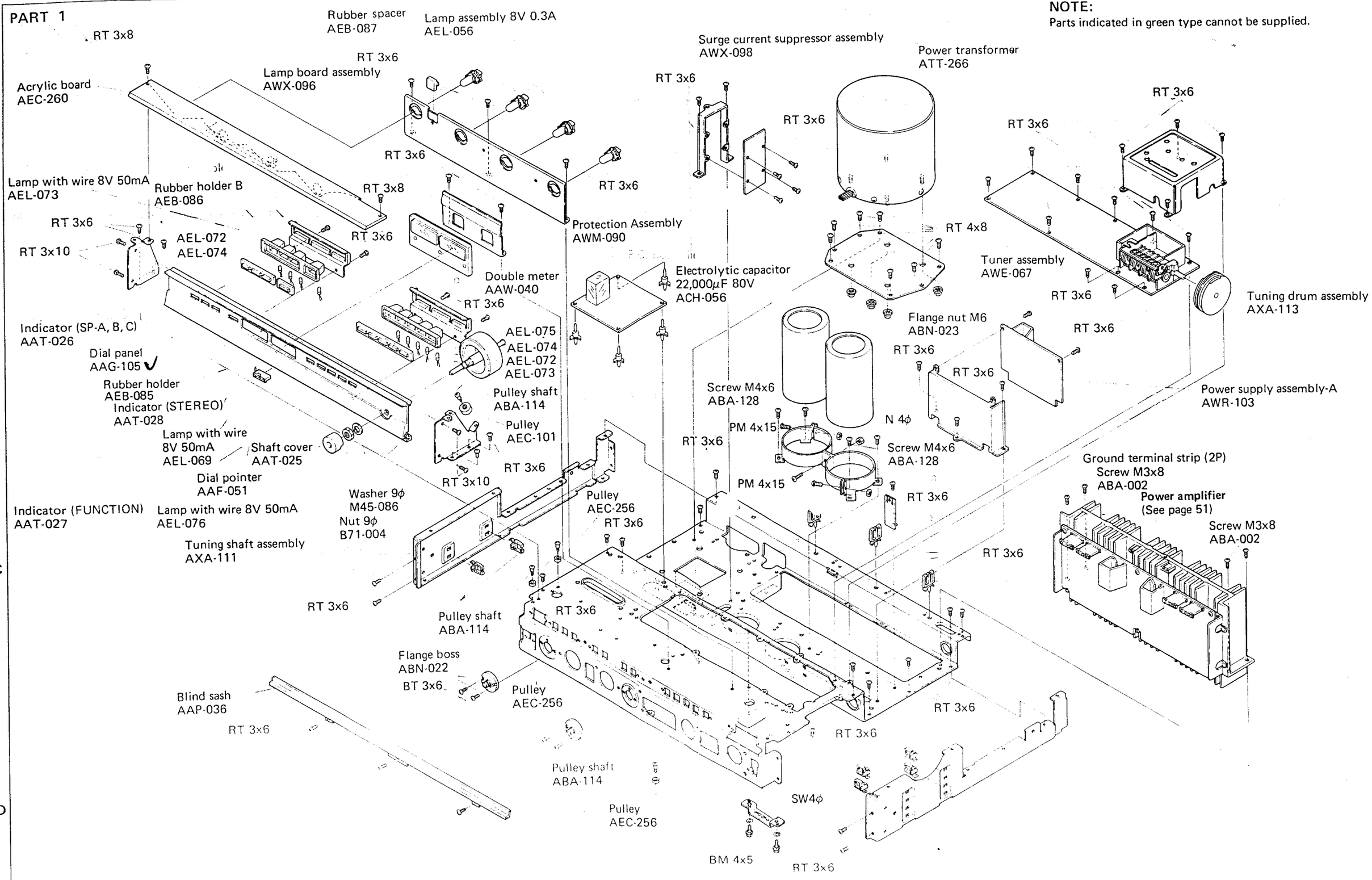
PART 2

NOTE:
Parts indicated in green type cannot be supplied.



PART 1

NOTE:
Parts indicated in green type cannot be supplied.

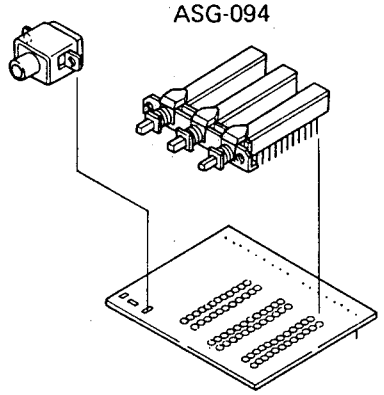


SPEAKER SWITCH ASSEMBLY

NOTE:
Parts indicated in green type cannot be supplied.

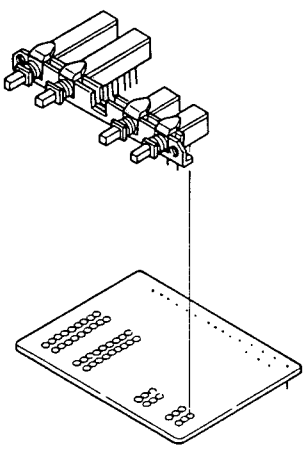
Phone jack (PHONES)
AKN-010

Push switch (SPEAKERS)
ASG-094



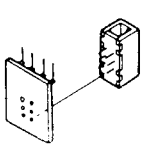
FILTER AMPLIFIER ASSEMBLY

Push switch
(FILTER, FM MUTING,
MULTIPATH)
ASG-098



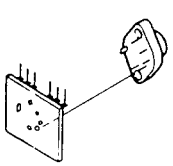
DE-EMPHASIS SWITCH ASSEMBLY

Slide switch (DE-EMPHASIS)
ASH-015

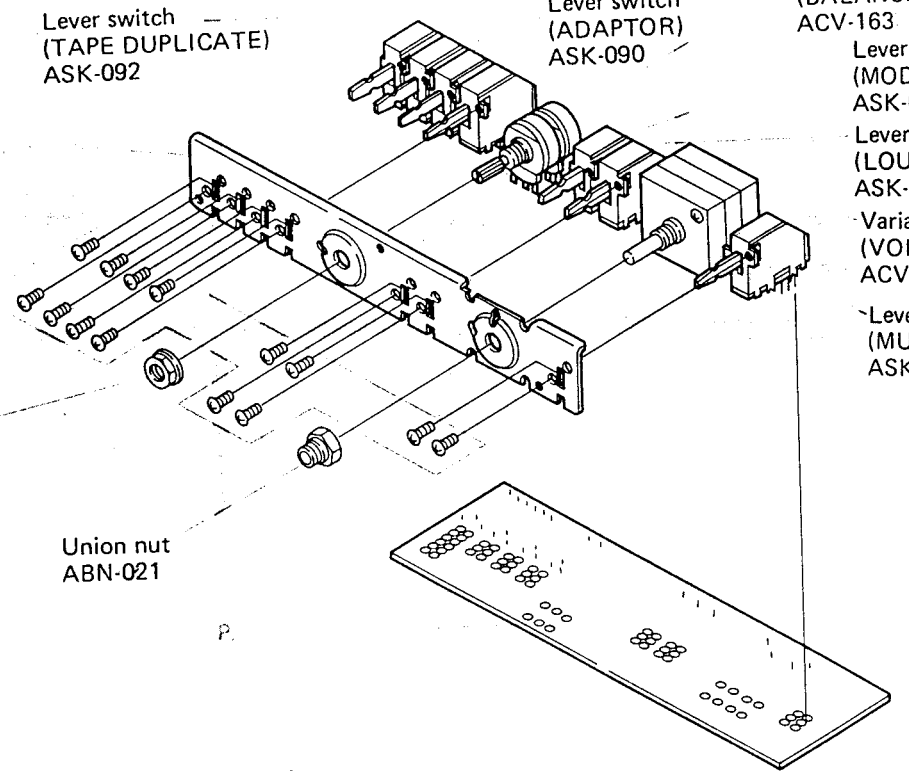


5P CONNECTOR ASSEMBLY (AWX-062)

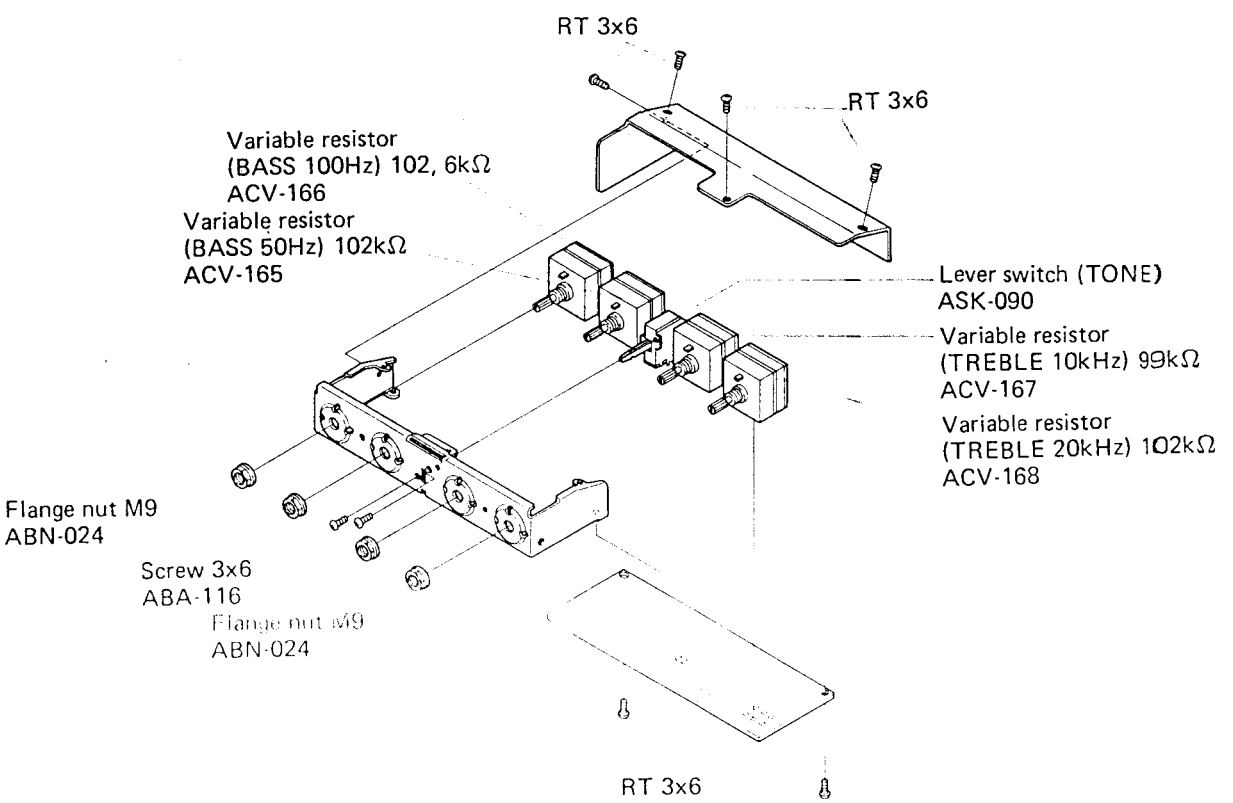
5P connector socket (REC/PLAY)
AKP-007



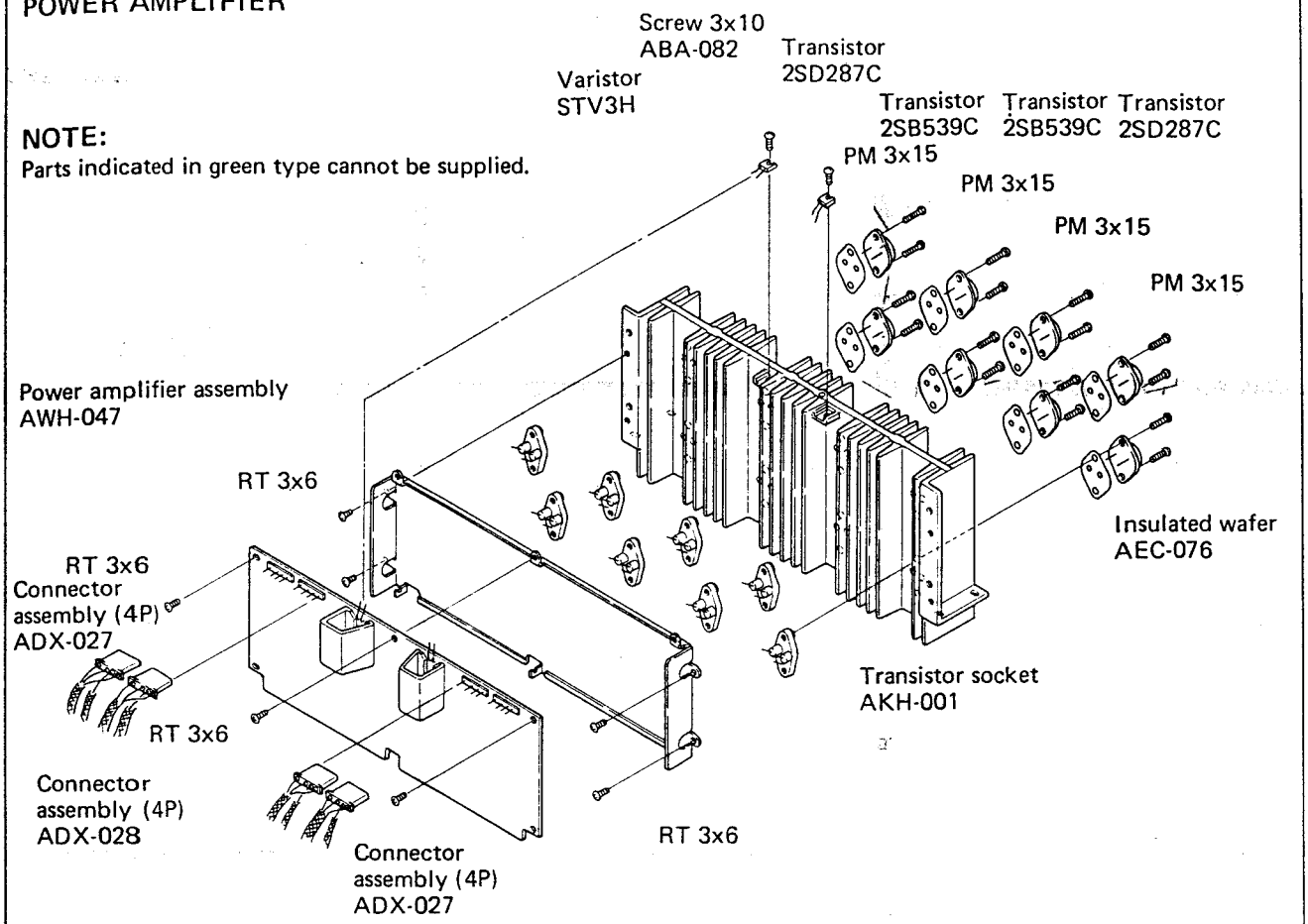
FLAT AMPLIFIER ASSEMBLY



CONTROL AMPLIFIER ASSEMBLY



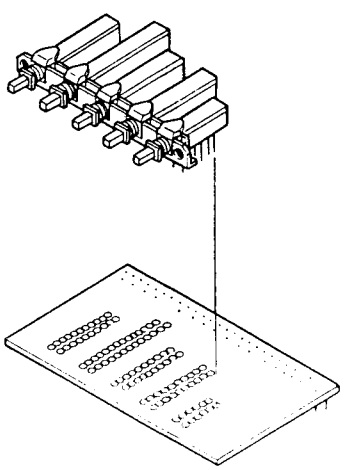
POWER AMPLIFIER



NOTE:
Parts indicated in green type cannot be supplied.

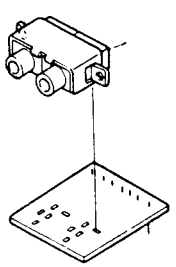
FUNCTION SWITCH ASSEMBLY

Push switch (FUNCTION)
ASG-095



MIC JACK ASSEMBLY

Phone jack (MIC)
AKN-013



PART 3

NOTE:
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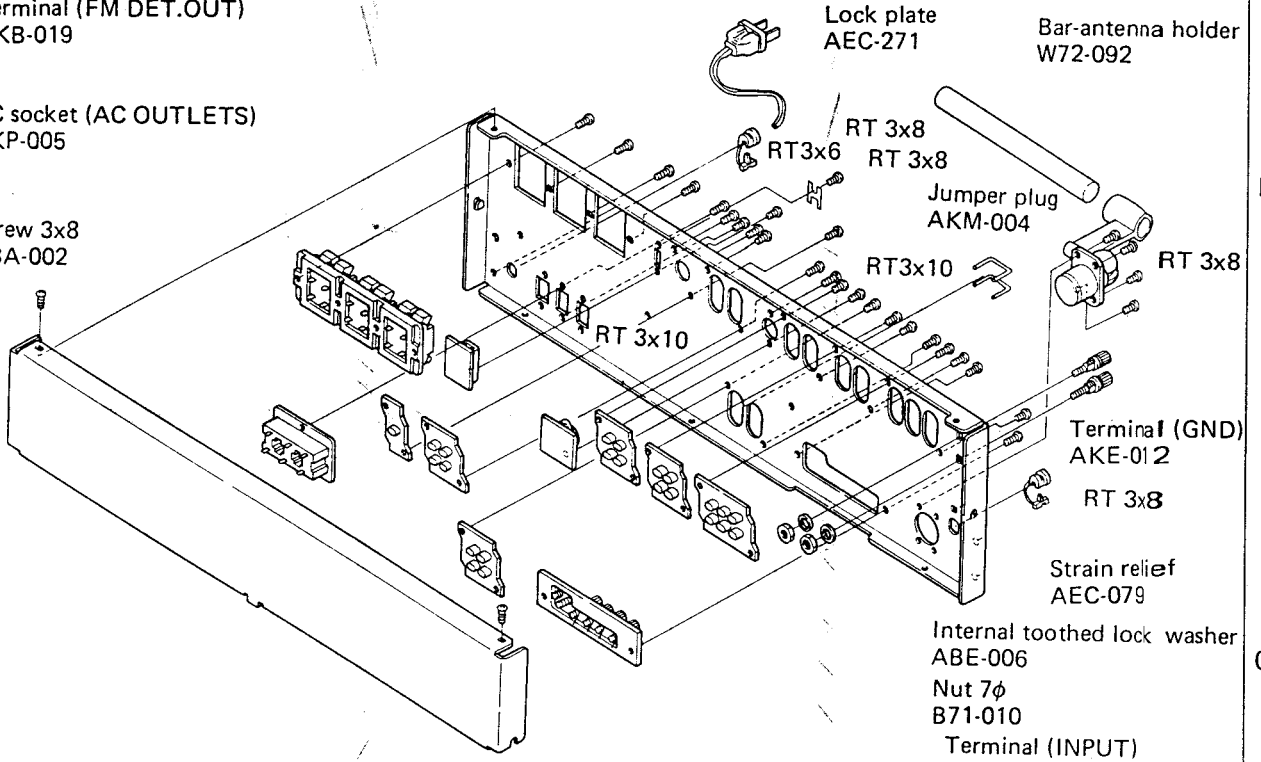


12. SCHEMATIC DIAGRAMS, P.C.BOARD PATTERNS AND PARTS LIST

12.1 SCHEMATIC DIAGRAM AND MISCELLANEOUS PARTS

NOTE:

- *Capacitors: in μF unless otherwise noted p:pF*
- *Resistors: in Ω, ¼W unless otherwise noted k:kΩ, M:MΩ*

Miscellaneous Parts List

SEMICONDUCTORS

Symbol	Description	Part No.
Q23	Transistor	2SB539C-S
Q24	Transistor	2SB539C-S
Q25	Transistor	2SD287C-S
Q26	Transistor	2SD287C-S
Q27	Transistor	2SB539C-S
Q28	Transistor	2SB539C-S
Q29	Transistor	2SD287C-S
Q30	Transistor	2SD287C-S

SWITCHES

Symbol	Description	Part No.
S1	Lever switch (POWER)	ASK-080
S2	Relay	ASR-015

TRANSFORMERS AND COIL

Symbol	Description	Part No.
T1	Ferrite balun	T22-025
T2	Ferrite bar-antenna	ATB-050
T3	Power transformer	ATT-266

RESISTOR AND CAPACITORS

Symbol	Description			Part No.
R1	Carbon film	2.2M	½W	RD½PS 225J
C1	Electrolytic	22000	80V	ACH-056
C2	Electrolytic	22000	80V	ACH-056
C3	Ceramic	0.01	150V	ACG-003
C4	Ceramic	0.01	150V	ACG-003
C5	Ceramic	0.01	50V	CKDYF 103Z 50
C6	Ceramic	0.01	50V	CKDYF 103Z 50
C7	Ceramic	0.01	50V	CKDYF 103Z 50
C8	Ceramic	0.01	50V	CKDYF 103Z 50
C9	Ceramic	0.01	50V	CKDYF 103Z 50
C10	Ceramic	0.01	50V	CKDYF 103Z 50
C11	Ceramic	0.01	50V	CKDYF 103Z 50

FUSES

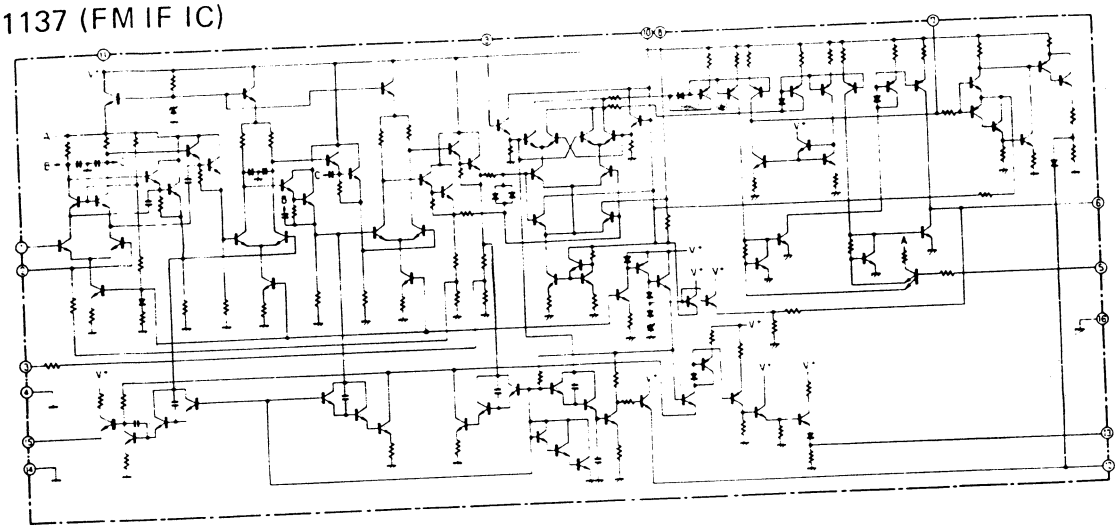
Symbol	Description	Part No.
F1	Fuse 1A	AEK-106
F2	Fuse 1A	AEK-106
F3	Fuse 1A	AEK-106
F4	Fuse 1A	AEK-106
F5	Fuse 1.5A	AEK-104
F6	Fuse 10A	AEK-302

LAMPS

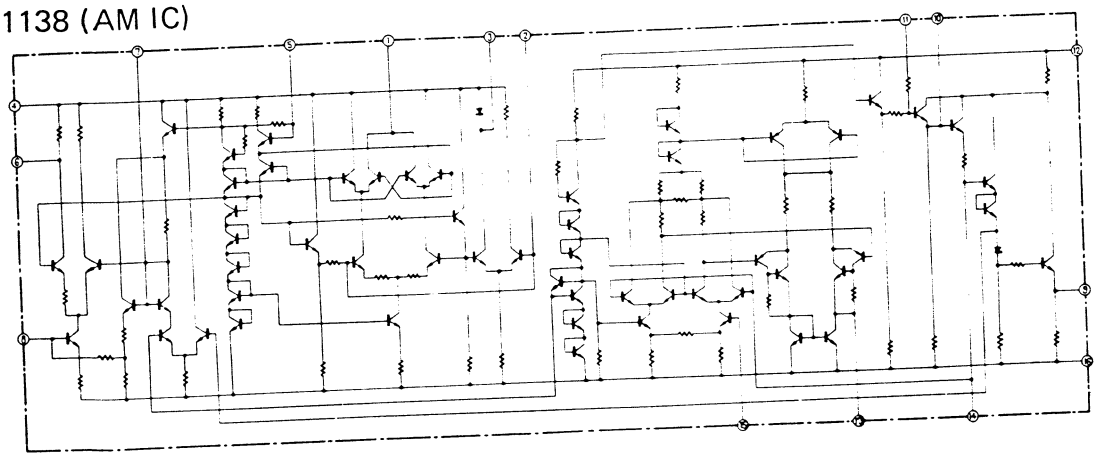
Symbol	Description			Part No.
PL1	Lamp assembly	8V	300mA	AEL-056
PL2	Lamp assembly	8V	300mA	AEL-056
PL3	Lamp assembly	8V	300mA	AEL-056
PL4	Lamp assembly	8V	300mA	AEL-056
PL5	Lamp with wire	8V	50mA	AEL-074
PL6	Lamp with wire	8V	50mA	AEL-072
PL7	Lamp with wire	8V	50mA	AEL-073
PL8	Lamp with wire	8V	50mA	AEL-076
PL9	Lamp with wire	8V	50mA	AEL-075
PL10	Lamp with wire	8V	50mA	AEL-074
PL11	Lamp with wire	8V	50mA	AEL-072
PL12	Lamp with wire	8V	50mA	AEL-073
PL13	Lamp with wire	8V	50mA	AEL-069

Circuit Diagrams of ICs

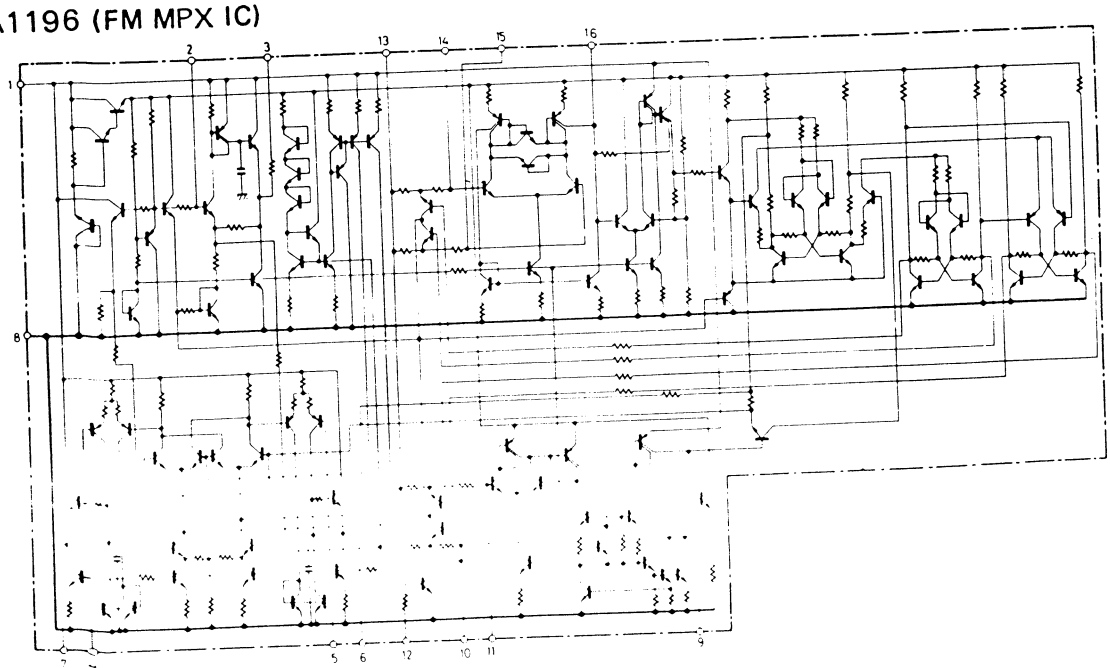
HA1137 (FM IF IC)



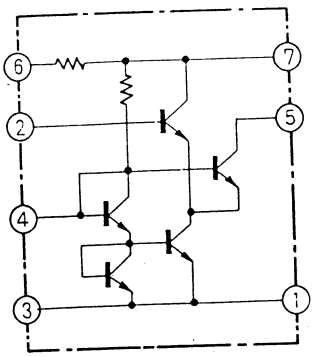
HA1138 (AM IC)



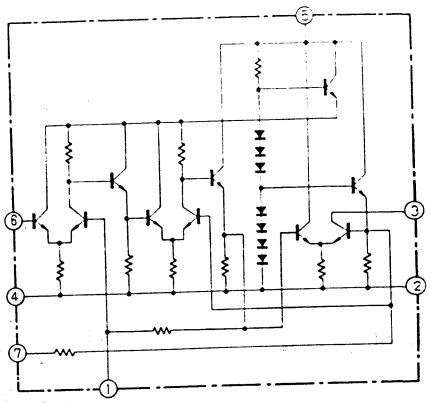
HA1196 (FM MPX IC)



HA1201

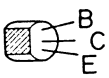


TA7061A

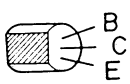


External Appearance of Transistors and ICs

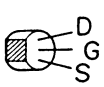
2SA720
2SA733
2SA750
2SA858
2SA872A
2SC945A
2SC1318
2SC1439
2SC1775A



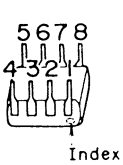
2SC1384



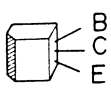
2SK30AW



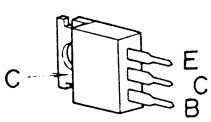
HA1201



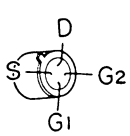
2SC461
2SC717



2SB507P
2SB536A
2SD313P
2SD381A
2SD325R



3SK45



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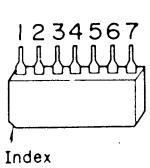

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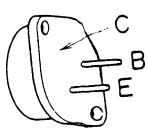
2SD289C



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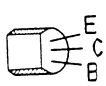
2SC1312
2SC1313



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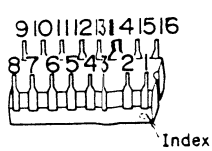
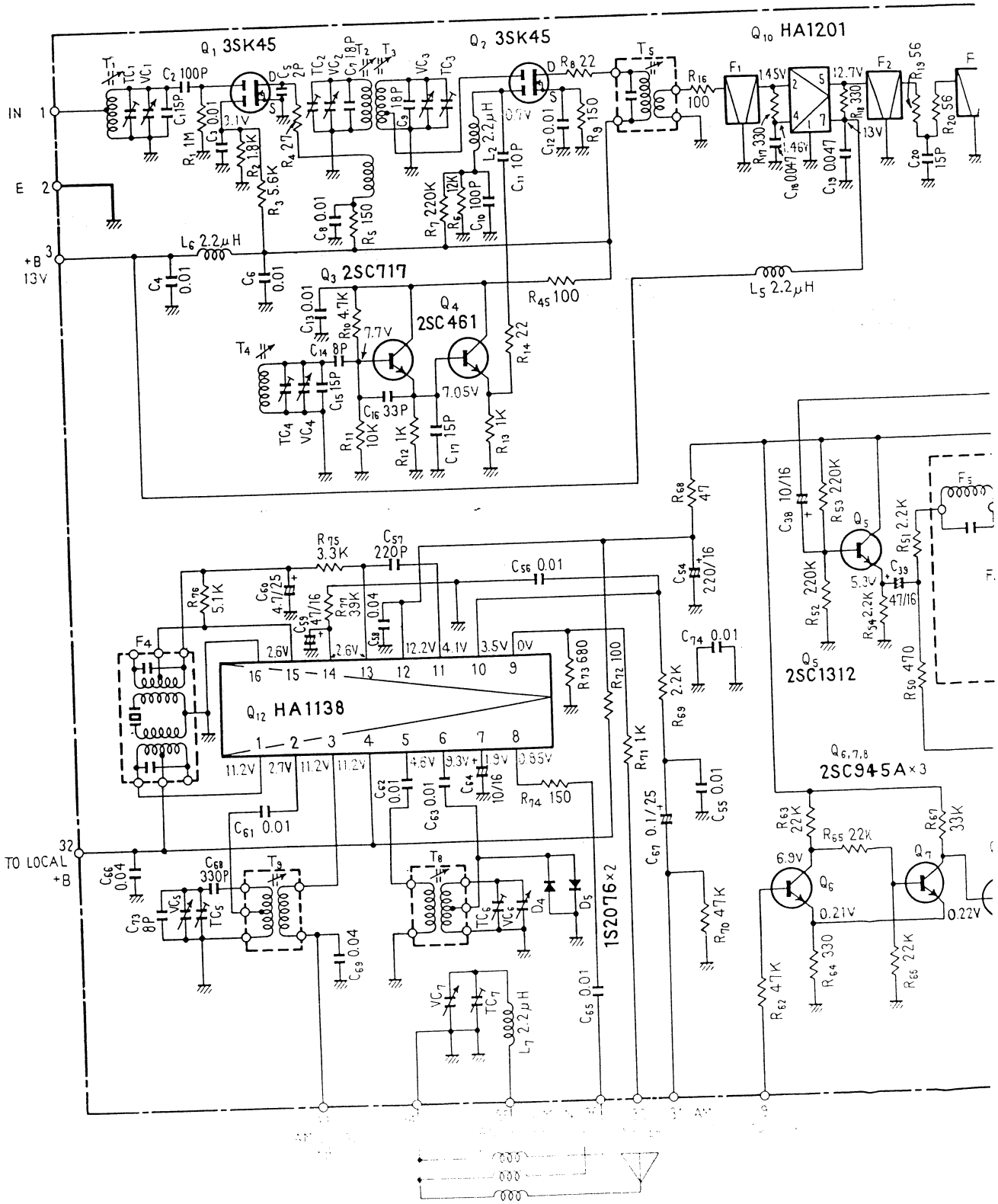
HA1138
HA1196

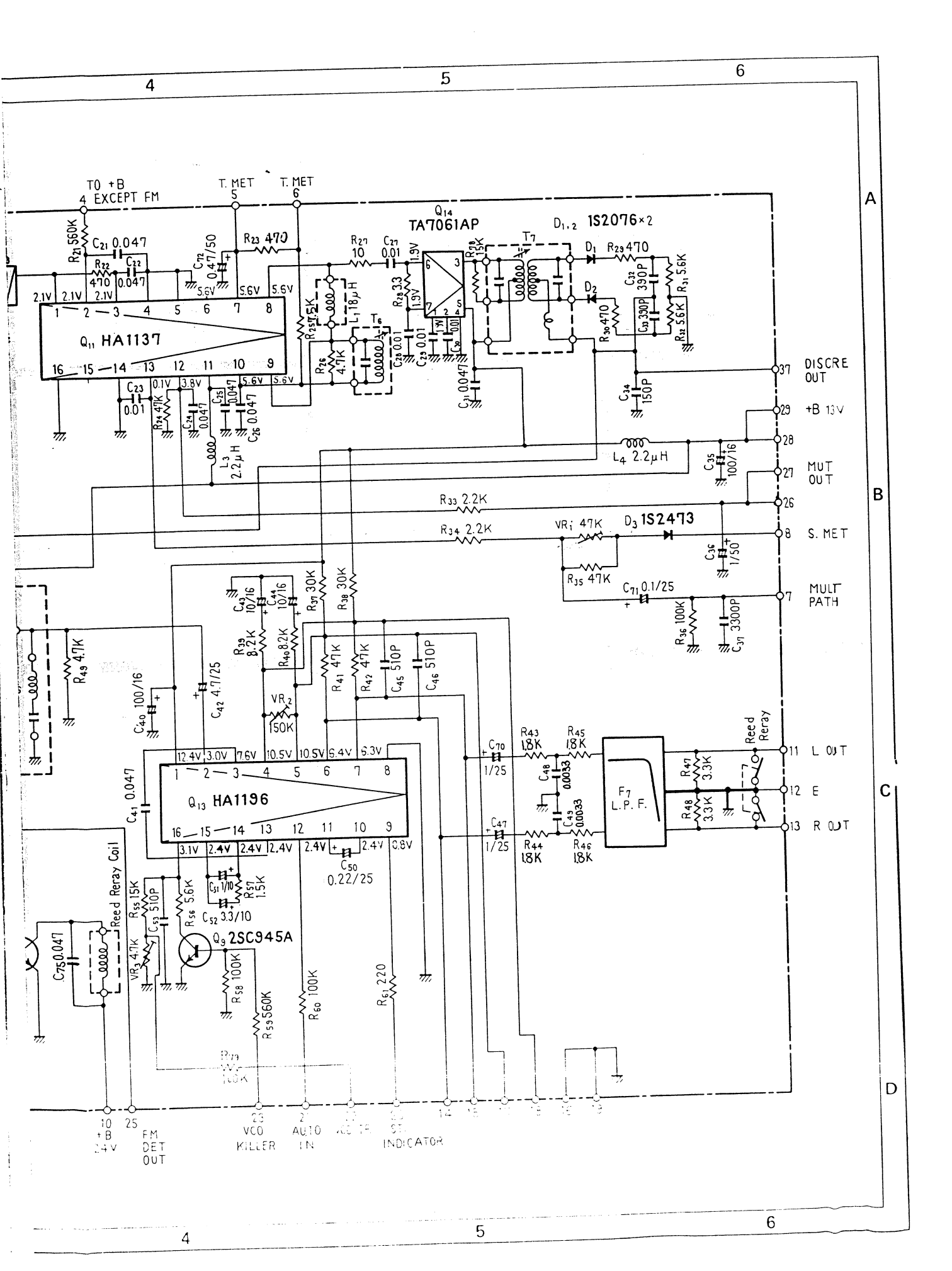


2SA841S

12.2 TUNER ASSEMBLY (AWE-067)

Total Current FM Position I_{typ} = 120mA
AM Position I_{typ} = 105mA




4
5
6
A
B
C
D
TO +B
4 EXCEPT FM
T. MET
5
T. MET
6
Q14
TA7061AP
D1,2 1S2076×2
Q11 HA1137
Q13 HA1196
Q9 2SC945A
F7
L.P.F.
Reed Reray
Reed Reray Coil
DISCRE OUT
+B 13V
MUT OUT
S. MET
MULT PATH
L OUT
E
R OUT
FM DET OUT
VCO KILLER
AUTO IN
INDICATOR

Parts List of Tuner Assembly (AWE-067)

SEMICONDUCTORS

Symbol	Description	Part No.
Q1	FET	3SK45-B
Q2	FET	3SK45-B
Q3	Transistor	2SC717
Q4	Transistor	2SC461-B
Q5	Transistor	2SC1312-G
Q6	Transistor	2SC945A-Q
Q7	Transistor	2SC945A-Q
Q8	Transistor	2SC945A-Q
Q9	Transistor	2SC945A-Q
Q10	IC	HA1201
Q11	IC	HA1137
Q12	IC	HA1138
Q13	IC	HA1196
Q14	IC	TA7061AP
D1	Diode	1S2076
D2	Diode	1S2076
D3	Diode	1S2473
D4	Diode	1S2076
D5	Diode	1S2076

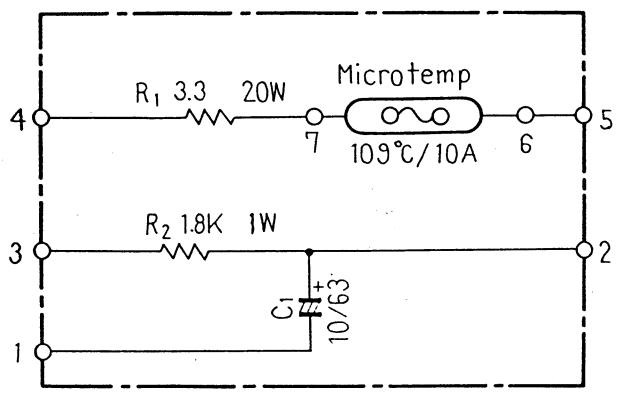
TRANSFORMERS, FILTERS AND COILS

Symbol	Description		Part No.
T1	FM antenna coil		ATC-021
T2	FM RF coil		ATC-015
T3	FM RF coil		ATC-016
T4	FM OSC coil		ATC-022
T5	FM IF transformer		ATE-008
T6	FM IF transformer		ATE-029
T7	FM IF transformer		ATE-013
T8	AM RF coil		ATB-014
T9	AM OSC coil		ATB-013
F1	FM ceramic filter		ATF-013
F2	FM ceramic filter		ATF-013
F3	FM ceramic filter		ATF-013
F4	AM ceramic filter		ATF-027
F5	Anti-birdy filter		ATF-023
F6	Anti-birdy filter		ATF-024
F7	FM low pass filter		ATF-028
L1	Choke coil	18μH	ATH-007
L2	RF choke coil	2.2μH	T24-028
L3	RF choke coil	2.2μH	T24-028
L4	RF choke coil	2.2μH	T24-028
L5	RF choke coil	2.2μH	T24-028
L6	RF choke coil	2.2μH	T24-028
L7	RF choke coil	2.2μH	T24-028

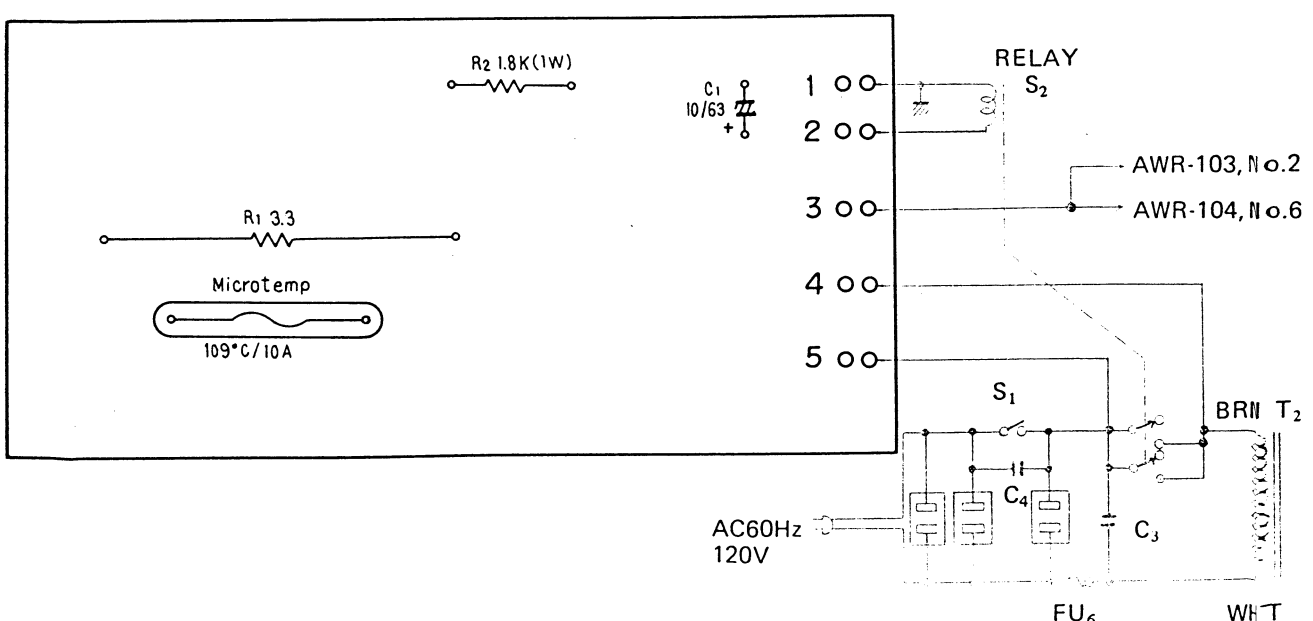
RESISTORS AND POTENTIOMETERS

Symbol	Description		Part No.
R1	Carbon film	1M	RD¼PS 105J
R2	Carbon film	1.8k	RD¼VS 182J
R3	Carbon film	5.6k	RD¼PS 562J
R4	Carbon film	27	RD¼VS 270J
R5	Carbon film	150	RD¼VS 151J
R6	Carbon film	12k	RD¼PS 123J
R7	Carbon film	220k	RD¼VS 224J
R8	Carbon film	22	RD¼VS 220J
R9	Carbon film	150	RD¼PS 151J
R10	Carbon film	4.7k	RD¼VS 472J
R11	Carbon film	10k	RD¼VS 103J
R12	Carbon film	1k	RD¼VS 102J
R13	Carbon film	1k	RD¼VS 102J
R14	Carbon film	22	RD¼VS 220J
R15	Carbon film	100	RD¼PS 101J
R16	Carbon film	100	RD¼PS 101J
R17	Carbon film	330	RD¼PS 331J
R18	Carbon film	330	RD¼PS 331J
R19	Carbon film	56	RD¼PS 560J
R20	Carbon film	56	RD¼PS 560J
R21	Carbon film	560k	RD¼PS 564J
R22	Carbon film	470	RD¼PS 471J
R23	Carbon film	470	RD¼PS 471J
R24	Carbon film	47k	RD¼PS 473J
R25	Carbon film	7.5k	RD¼PS 752J
R26	Carbon film	4.7k	RD¼PS 472J
R27	Carbon film	10	RD¼PS 100J
R28	Carbon film	3.3k	RD¼PS 332J
R29	Carbon film	470	RD¼PS 471J
R30	Carbon film	470	RD¼PS 471J
R31	Carbon film	5.6k	RD¼PS 562J
R32	Carbon film	5.6k	RD¼PS 562J
R33	Carbon film	2.2k	RD¼PS 222J
R34	Carbon film	2.2k	RD¼PS 222J
R35	Carbon film	47k	RD¼PS 473J
R36	Carbonffilm	100k	RD¼PS 104J
R37	Carbon film	30k	RD¼PS 303J
R38	Carbon film	30k	RD¼PS 303J
R39	Carbon film	8.2k	RD¼PS 822J
R40	Carbon film	8.2k	RD¼PS 822J
R41	Carbon film	47k	RD¼PS 473J
R42	Carbon film	47k	RD¼PS 473J
R43	Carbon film	1.8k	RD¼PS 182J
R44	Carbon film	1.8k	RD¼PS 182J
R45	Carbon film	1.8k	RD¼PS 182J
R46	Carbon film	1.8k	RD¼PS 182J
R47	Carbon film	3.3k	RD¼PS 332J
R48	Carbon film	3.3k	RD¼PS 332J

12.15 SURGE CURRENT SUPPRESSOR ASSEMBLY (AWX-098)



Foil side



Parts List of Surge Current Suppressor Assembly (AWX-098)

RESISTORS

Symbol	Description			Part No.
R1	Wire wound	3.3Ω	20W	ACN-006
R2	Metal oxide	1.8k	1W	RS1PF 182J

OTHER

Symbol	Description	Part No.
	Micro-temp.	AEX-001

CAPACITOR

Symbol	Description			Part No.
C1	Electrolytic	10	63V	CEA 100P 63

Parts List of Power Supply Circuit Assembly-A (AWR-103)

SEMICONDUCTORS

Symbol	Description	Part No.
Q1	Transistor	2SD313P-E
Q2	Transistor	2SC869-D
Q3	Transistor	2SC869-D
Q4	Transistor	2SC1318-R
Q5	Transistor	2SB507P-E
Q6	Transistor	2SA628A-D
Q7	Transistor	2SA628A-D
Q8	Transistor	2SA720-R
Q9	Transistor	2SD325R-E
Q10	Transistor	2SC945A-R
Q11	Transistor	2SC945A-R
Q12	Transistor	2SD325R-E
Q13	Transistor	2SC945A-R
D1	Zener diode	WZ-140
D2	Zener diode	WZ-130
D3	Zener diode	WZ-061
D4	Zener diode	WZ-061

RESISTORS

Symbol	Description			Part No.
R1	Metal oxide	10	1W	RS1P 100K
R2	Metal oxide	4.3k	1W	RS1P 432K
R3	Carbon film	6.8k		RD¼PS 682J
R4	Carbon film	7.5k		RD¼PS 752J
R5	Carbon film	47k		RD¼PS 473J
R6	Carbon film	15k		RD¼PS 153J
R7	Carbon film	4.7k		RD¼PS 472J
R8	Carbon film	5.1k		RD¼PS 512J
R9	Metal oxide	510	2W	RS2P 511K
R10	Metal oxide	4.3k	1W	RS1P 432K
R11	Carbon film	6.8k		RD¼PS 682J
R12	Carbon film	7.5k		RD¼PS 752J
R13	Carbon film	15k		RD¼PS 153J
R14	Carbon film	51k		RD¼PS 513J
R15	Carbon film	5.1k		RD¼PS 512J
R16	Carbon film	4.7k		RD¼PS 472J
R17	Metal oxide	820	1W	RS1P 821K
R18	Carbon film	390		RD¼PS 391J
R19	Metal oxide	10	2W	RS2P 100K
R20	Carbon film	10	½W	RD½PS 100J
R21	Metal oxide	100	2W	RS2P 101K
R22	Carbon film	3.9k		RD¼PS 392J
R23	Carbon film	1k		RD¼PS 102J
R24	Carbon film	1k		RD¼PS 102J
R25	Carbon film	2.7k		RD¼PS 272J
R26	Carbonf ilm	2.7k		RD¼PS 272J
R27	Carbon film	1.6k		RD¼PS 162J
R28	Carbon film	1.5k		RD¼PS 152J

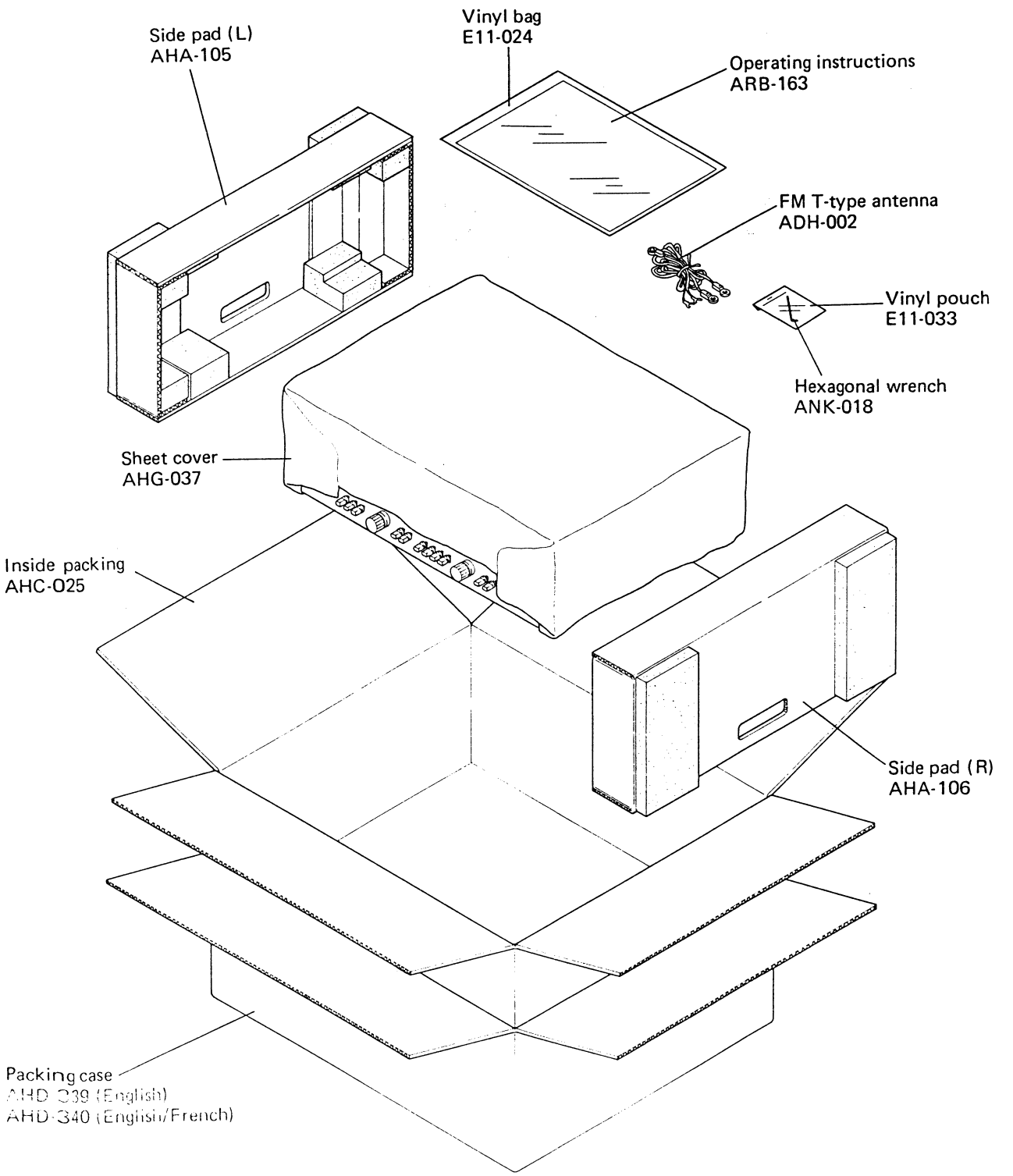
CAPACITORS

Symbol	Description			Part No.
C1	Electrolytic	220	80V	CEA 221P 80
C2	.....			.....
C3	Electrolytic	47	16V	CEA 470P 16
C4	Ceramic	1000p	50V	CKDYF 102Z 50
C5	.....			.....
C6	Electrolytic	47	35V	CEA 470P 35
C7	Electrolytic	10	35V	CEA 100P 35
C8	Electrolytic	1	50V	CEA 010P 50
C9	Electrolytic	220	80V	CEA 221P 80
C10	.....			.....
C11	Ceramic	1000p	50V	CKDYF 102Z 50
C12	Electrolytic	47	16V	CEA 470P 16
C13	.....			.....
C14	Electrolytic	47	35V	CEA 470P 35
C15	Electrolytic	100	35V	CEA 101P 35
C16	Electrolytic	220	25V	CEA 221P 25
C17	Electrolytic	47	10V	CEA 470P 10
C18	.....			.....
C19	.....			.....
C20	Electrolytic	100	25V	CEA 101P 25
C21	Ceramic	1000p	50V	CKDYF 102Z 50
C22	Electrolytic	47	10V	CEA 470P 10
C23	Electrolytic	2.2	50V	CEA 2R2P 50
C24	Electrolytic	220	16V	CEA 221P 16

OTHERS

Symbol	Description	Part No.
	Heat sink	ANH-117
	Heat sink	ANH-237
	Transistor socket	AKH-002
	Insulated wafer	AEC-043

13. PACKING


Side pad (L)
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Vinyl bag
E11-024
Operating instructions
ARB-163
FM T-type antenna
ADH-002
Vinyl pouch
E11-033
Hexagonal wrench
ANK-018
Sheet cover
AHG-037
Inside packing
AHC-025
Side pad (R)
AHA-106
Packing case
AHD-339 (English)
AHD-340 (English/French)

Parts List of Power Supply Circuit Assembly-B (AWR-104)

SEMICONDUCTORS

Symbol	Description	Part No.
D1	Diode	KBH25-04
D2	Diode	1S1886
D3	Diode	1S1886
D4	Diode	1S1886
D5	Diode	1S1886
D6	Diode	1S1885
D7	Diode	1S1885

RESISTORS

Symbol	Description			Part No.
R1	Metal oxide	4.7k	2W	RS 2P 472K
R2	Metal oxide	4.7k	2W	RS 2P 472K

CAPACITORS

Symbol	Description			Part No.
C1	Ceramic	0.01	150V	ACG-004
C2	Ceramic	0.01	150V	ACG-004
C3	Ceramic	0.01	150V	ACG-004
C4	Ceramic	0.01	150V	ACG-004
C5	Ceramic	0.01	150V	ACG-004
C6	Ceramic	0.01	150V	ACG-004
C7	Ceramic	0.01	150V	ACG-004
C8	Ceramic	0.01	150V	ACG-004
C9	Electrolytic	470	80V	ACH-038
C10	Electrolytic	470	80V	ACH-038
C11	Electrolytic	2200	25V	CEA 222P 25
C12	Ceramic	0.01	150V	ACG-004
C13	Ceramic	0.01	150V	ACG-004

OTHERS

Symbol	Description	Part No.
	Fuse clip	AKP-013
	Fuse clip	AKP-030
	Heat sink	ANH-297

Parts No.	Parts Name
AWS-094	Function Switch Ass.
AWS-095	Speaker Switch Ass.
AWX-062	5P Connector Ass.
AWX-096	Lamp Board Ass.
AWX-097	Mic Jack Ass.
AWX-098	Surge Killer Ass.
AWX-099	De-emphasis SW Ass. (KCU model)
AWX-101	De-emphasis SW Ass. (S model)
AXA-111	Tuning Shaft Ass.
AXA-113	Tuning Drum Ass.
B71-004	Nut (M9)
B71-010	Nut (M7)
E11-024	Vinyl Bag
E11-033	Vinyl Pouch
M45-086	Washer (M9)
W72-096	Bar-Antenna Holder
2SB539C	Transistor
2SD287C	Transistor

14. PARTS LIST OF EXPLODED VIEWS

Parts No.	Parts Name
AAA-034	Knob
AAB-100	Knob
AAB-104	Knob
AAD-113	Knob
AAD-114	Knob
AAF-051	Dial Pointer
AAG-105	Dial Panel
AAP-036	Blind Sash
AAT-025	Shaft Cover
AAT-026	Indicator
AAT-027	Indicator
AAT-028	Indicator
AAW-040	Double Meter
ABA-002	Screw (3 x 8)
ABA-012	Screw (4 x 8)
ABA-082	Screw (3 x 10)
ABA-113	Screw (4 x 15)
ABA-114	Pulley Shaft
ABA-116	Screw (3 x 6)
ABE-006	Washer
ABH-022	Coil Spring
ABN-021	Union Nut
ABN-022	Flange Boss
ABN-023	Flange Nut (M6)
ABN-024	Flange Nut (M9)
ACH-056	Electrolytic Capacitor (22,000μF 30V)
ACV-163	Variable Resistor (100k ohm HB)
ACV-165	Variable Resistor (102k ohm)
ACV-166	Variable Resistor (102.6k ohm)
ACV-167	Variable Resistor (99k ohm)
ACV-168	Variable Resistor (102k ohm)
ACV-169	Variable Resistor (50k ohm)
ADG-013	AC Power Cord
ADH-002	FM T-type Antenna
ADX-027	Connector Ass. (4P)
ADX-028	Connector Ass. (4P)
AEB-085	Rubber Holder (A)
AEB-086	Rubber Holder (B)
AEC-076	Insulated Wafer
AEC-079	Strain Relief
AEC-101	Pulley
AEC-258	Spacer
AEC-260	Acrylic Board
AED-018	Mask
AEK-104	Fuse (1.5A)
AEK-106	Fuse (1A)
AEK-302	Fuse (10A)
AEL-056	Lamp Ass.
AEL-069	Lamp (with Wire)

Parts No.	Parts Name
AEL-072	Lamp (with Wire)
AEL-073	Lamp (with Wire)
AEL-074	Lamp (with Wire)
AEL-075	Lamp (with Wire)
AEL-076	Lamp (with Wire)
AHA-105	Side Pad (L)
AHA-106	Side Pad (R)
AHC-025	Inside Packing
AHD-339	Packing Case (English)
AHD-340	Packing Case (English/French)
AHG-037	Sheet Cover
AKA-004	Terminal
AKB-019	Terminal
AKB-030	Terminal
AKB-033	Terminal
AKE-012	Terminal
AKE-014	Terminal
AKH-001	Transistor Socket
AKM-004	Jumper Plug
AKN-010	Phone Jack
AKN-013	Phone Jack
AKP-005	AC Socket
AKP-007	REC-PB Socket (5P)
AKR-028	Fuse Holder (KCU model)
AKR-031	Voltage Selector SW (S model)
AMM-050	Top Cover
ANB-388	Front Panel Ass.
ANK-018	Hexagonal Wrench
ARB-163	Operating Instruction (KCU model)
ARB-165	Operating Instruction (S model)
ASG-094	Push Switch
ASG-095	Push Switch
ASG-098	Push Switch
ASH-015	Slide Switch
ASK-080	Lever Switch
ASK-090	Lever Switch
ASK-092	Lever Switch
ASR-019	Relay
ATB-050	Ferrite Bar-Antenna
ATT-266	Power Transformer (KCU)
ATT-290	Power Transformer (S)
AWE-067	Tuner Ass.
AWF-020	Equalizer Amp. Ass.
AWG-040	Flat Amp. Ass.
AWG-041	Control Amp. Ass.
AWH-047	Power Amp. Ass.
AWM-089	Filter Amp. Ass.
AWM-090	Protection Ass.
AWR-103	Power Supply Ass. (A)
AWR-104	Power Supply Ass. (B)

15. ADDITIONAL INFORMATION(SX-1050/S)

NOTE:
- *For servicing of the SX-1050/S please refer to pages 1 ~ 101 of SX-1050/KCU manual with the exception of the power transformer section and de-emphasis switch assembly which are described in this supplement.*

Miscellaneous Parts List

NOTE:
- *Capacitors: in μF unless otherwise noted p:pF*
- *Resistors: in Ω, ¼W unless otherwise noted k:kΩ, M:MΩ*

SEMICONDUCTORS

Symbol	Description	Part No.
Q23	Transistor	2SB539C-S
Q24	Transistor	2SB539C-S
Q25	Transistor	2SD287C-S
Q26	Transistor	2SD287C-S
Q27	Transistor	2SB539C-S
Q28	Transistor	2SB539C-S
Q29	Transistor	2SD287C-S
Q30	Transistor	2SD287C-S

SWITCHES

Symbol	Description	Part No.
S1	Lever switch (POWER)	ASK-080
S2	Relay	ASR-015
S5	Voltage selector switch	AKR-031

TRANSFORMERS AND COIL

Symbol	Description	Part No.
T1	Ferrite balun	T22-025
T2	Ferrite bar-antenna	ATB-050
T3	Power transformer	ATT-290

RESISTOR AND CAPACITORS

Symbol	Description			Part No.
R1	Carbon film	2.2M	½W	RD¼PS 225J
C1	Electrolytic	22000	80V	ACH-056
C2	Electrolytic	22000	80V	ACH-056
C3	Ceramic	0.01	250V	ACG-001
C4	Ceramic	0.01	250V	ACG-001
C5	Ceramic	0.01	50V	CKDYF 103Z 50
C6	Ceramic	0.01	50V	CKDYF 103Z 50
C7	Ceramic	0.01	50V	CKDYF 103Z 50
C8	Ceramic	0.01	50V	CKDYF 103Z 50
C9	Ceramic	0.01	50V	CKDYF 103Z 50
C10	Ceramic	0.01	50V	CKDYF 103Z 50
C11	Ceramic	0.01	50V	CKDYF 103Z 50

FUSES

Symbol	Description	Part No.
F1	Fuse 1A	AEK-106
F2	Fuse 1A	AEK-106
F3	Fuse 1A	AEK-106
F4	Fuse 1A	AEK-106
F5	Fuse 2A	AEK-103
F6	Fuse 5A (110V/120V)	AEK-108
	Fuse 10A (220V/240V)	AEK-302

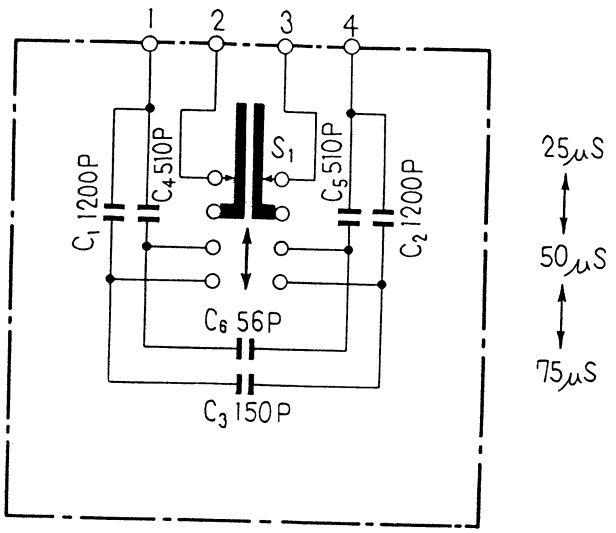
LAMPS

Symbol	Description	Part No.
PL1	Lamp assembly 8V 300mA	AEL-056
PL2	Lamp assembly 8V 300mA	AEL-056
PL3	Lamp assembly 8V 300mA	AEL-056
PL4	Lamp assembly 8V 300mA	AEL-056
PL5	Lamp with wire 8V 50mA	AEL-074
PL6	Lamp with wire 8V 50mA	AEL-072
PL7	Lamp with wire 8V 50mA	AEL-073
PL8	Lamp with wire 8V 50mA	AEL-076
PL9	Lamp with wire 8V 50mA	AEL-075
PL10	Lamp with wire 8V 50mA	AEL-074
PL11	Lamp with wire 8V 50mA	AEL-072
PL12	Lamp with wire 8V 50mA	AEL-073
PL13	Lamp with wire 8V 50mA	AEL-069

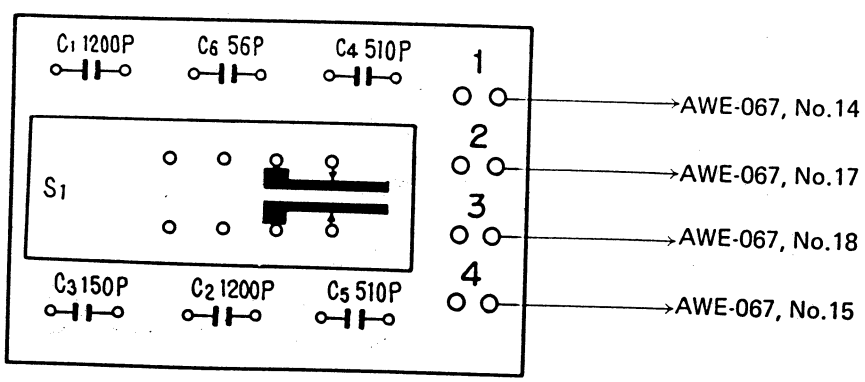
OTHERS

Symbol	Description	Part No.
	Operating instructions	ARB-165
	Packing case	AHD-339

DE-EMPHASIS SWITCH ASSEMBLY (AWX-101)



Foil side



Parts List of De-emphasis Switch Assembly (AWX-101)

CAPACITORS

Symbol	Description			Part No.
C1	Ceramic	1200p	50V	CKDYA 122J 50
C2	Ceramic	1200p	50V	CKDYA 122J 50
C3	Ceramic	150p	50V	CCDSL 151K 50
C4	Styrol	510p	50V	CQSA 511J 50
C5	Styrol	510p	50V	CQSA 511J 50
C6	Ceramic	56p	50V	CCDSL 560K 50

SWITCH

Symbol	Description	Part No.
S1	Slide switch	ASH-017

Parts List of Power Amplifier Assembly (AWH-047)

SEMICONDUCTORS

Symbol	Description	Part No.
Q1	Transistor	2SA750-E
Q2	Transistor	2SA750-E
Q3	Transistor	2SA750-E
Q4	Transistor	2SA750-E
Q5	Transistor	2SA750-E
Q6	Transistor	2SC1439-B
Q7	Transistor	2SC1439-B
Q8	Transistor	2SC1439-B
Q9	Transistor	2SC1439-B
Q10	Transistor	2SA858-B
Q11	Transistor	2SA858-B
Q12	Transistor	2SA858-B
Q13	Transistor	2SA858-B
Q14	Transistor	2SC1439-B
Q15	Transistor	2SC1439-B
Q16	Transistor	2SB536A-H
Q17	Transistor	2SB536A-H
Q18	Transistor	2SD381A-H
Q19	Transistor	2SD381A-H
Q20	Transistor	2SA858-B
Q21	Transistor	2SA858-B
Q22	Transistor	.....
D1	.....	.....
D2	.....	1S2473
D3	Diode	1S2473
D4	Diode	STV3H
D5	Varistor	STV3H
D6	Varistor	STV3H
D7	Varistor	STV3H
D8	Varistor	SIB01-02
D9	Diode	SIB01-02
D10	Diode	SIB01-02
D11	Diode	SIB01-02
D12	Diode	SIB01-02
D13	Diode	SIB01-02
D14	Diode	SIB01-02
D15	Diode	SIB01-02
D16	Diode	SIB01-02
D17	Diode	SIB01-02
D18	Diode	SIB01-02
D19	Diode	SIB01-02
D20	Diode	SIB01-02

RESISTORS

Symbol	Description		Part No.
R1	Carbon film	560k	RD¼PS 564J
R2	Carbon film	560k	RD¼PS 564J
R3	Carbon film	150	RD¼PS 151J
R4	Carbon film	150	RD¼PS 151J
R5	Carbon film	150	RD¼PS 151J
R6	Carbon film	150	RD¼PS 151J
R7	Carbon film	47k	RD¼PS 473J
R8	Carbon film	47k	RD¼PS 473J
R9	.....		.....
R10	.....		.....
R11	Carbon film	3.3k	RD¼PS 332J
R12	Carbon film	3.3k	RD¼PS 332J
R13	Carbon film	47k	RD¼PS 473J
R14	Carbon film	47k	RD¼PS 473J
R15	Carbon film	56k	RD¼PS 563J
R16	Carbon film	56k	RD¼PS 563J
R17	Carbon film	16k	RD¼PS 163J
R18	Carbon film	16k	RD¼PS 163J
R19	Carbon film	16k	RD¼PS 163J
R20	Carbon film	16k	RD¼PS 163J
R21	Carbon film	56	RD¼PS 560J
R22	Carbon film	56	RD¼PS 560J
R23	Carbon film	56	RD¼PS 560J
R24	Carbon film	56	RD¼PS 560J
R25	Carbon film	1.6k	RD¼PS 162J
R26	Carbon film	1.6k	RD¼PS 162J
R27	Carbon film	47	RD¼PS 470J
R28	Carbon film	47	RD¼PS 470J
R29	Carbon film	47	RD¼PS 470J
R30	Carbon film	47	RD¼PS 470J
R31	Carbon film	1k	RD¼PS 102J
R32	Carbon film	1k	RD¼PS 102J
R33	Carbon film	56k	RD¼PS 563J
R34	Carbon film	56k	RD¼PS 563J
R35	Carbon film	560	RD¼PS 561J
R36	Carbon film	560	RD¼PS 561J
R37	Carbon film	1.6k	RD¼PS 162J
R38	Carbon film	1.6k	RD¼PS 162J

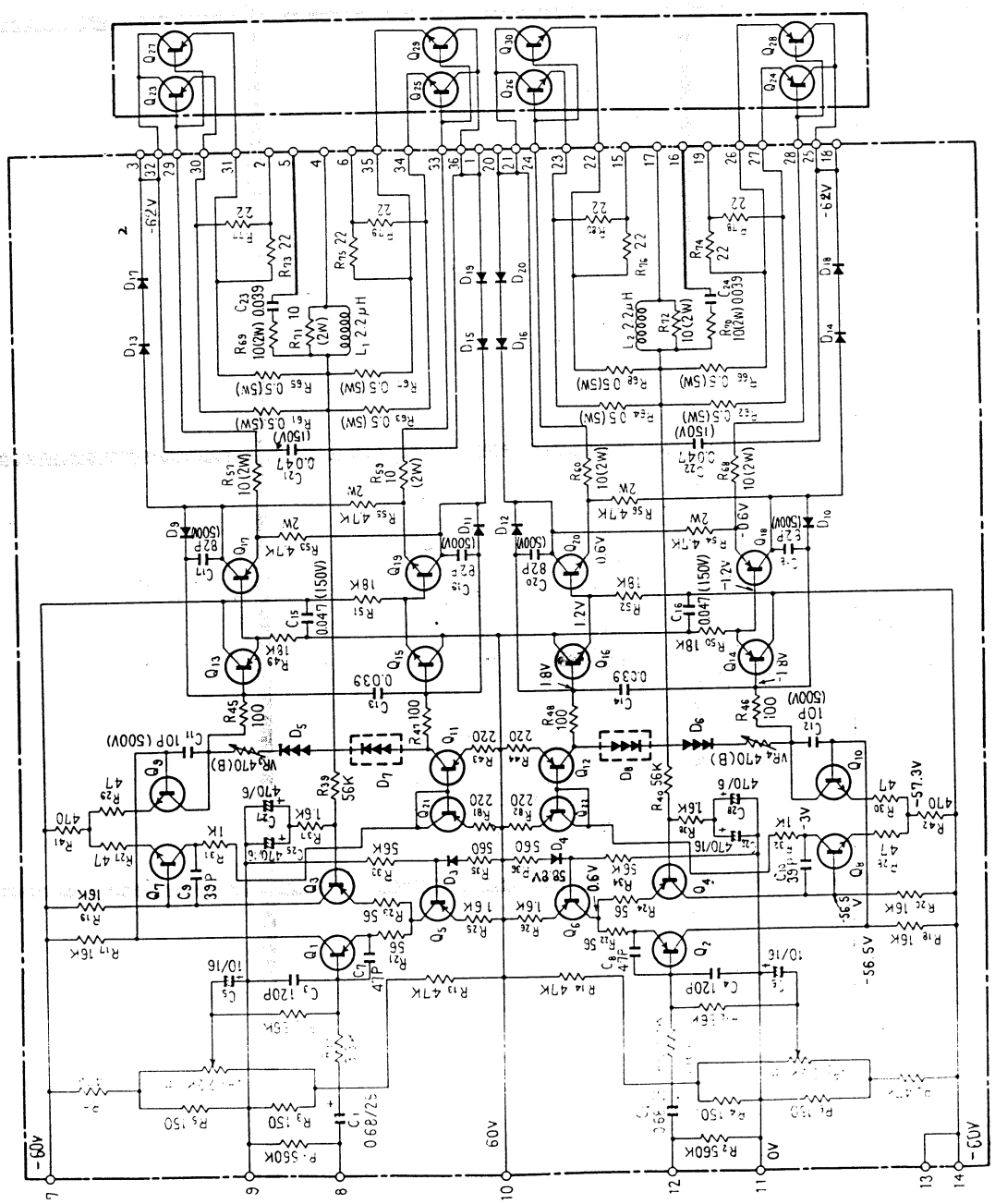
12.11 POWER AMPLIFIER ASSEMBLY (AWH-047)

TRANSISTORS

$Q_{1\sim6}$	2SA750x6
$Q_{7\sim10}$	2SC1439x4
$Q_{11,12,21,22}$	2SA858x4
$Q_{13,14}$	2SA858x2
$Q_{15,16}$	2SC1439x2
$Q_{19,20}$	2SD381Ax2
$Q_{17,18}$	2SB536Ax2
$Q_{23,24\ 27,28}$	2SB539Cx4
$Q_{25,26\ 29,30}$	2SD287Cx4

DIODES

$D_{9\sim20}$	S1B01-02 or 1S1886 x12
$D_{3,4}$	1S2473x2
$D_{5\sim8}$	STV3Hx4



4. BLOCK DIAGRAM